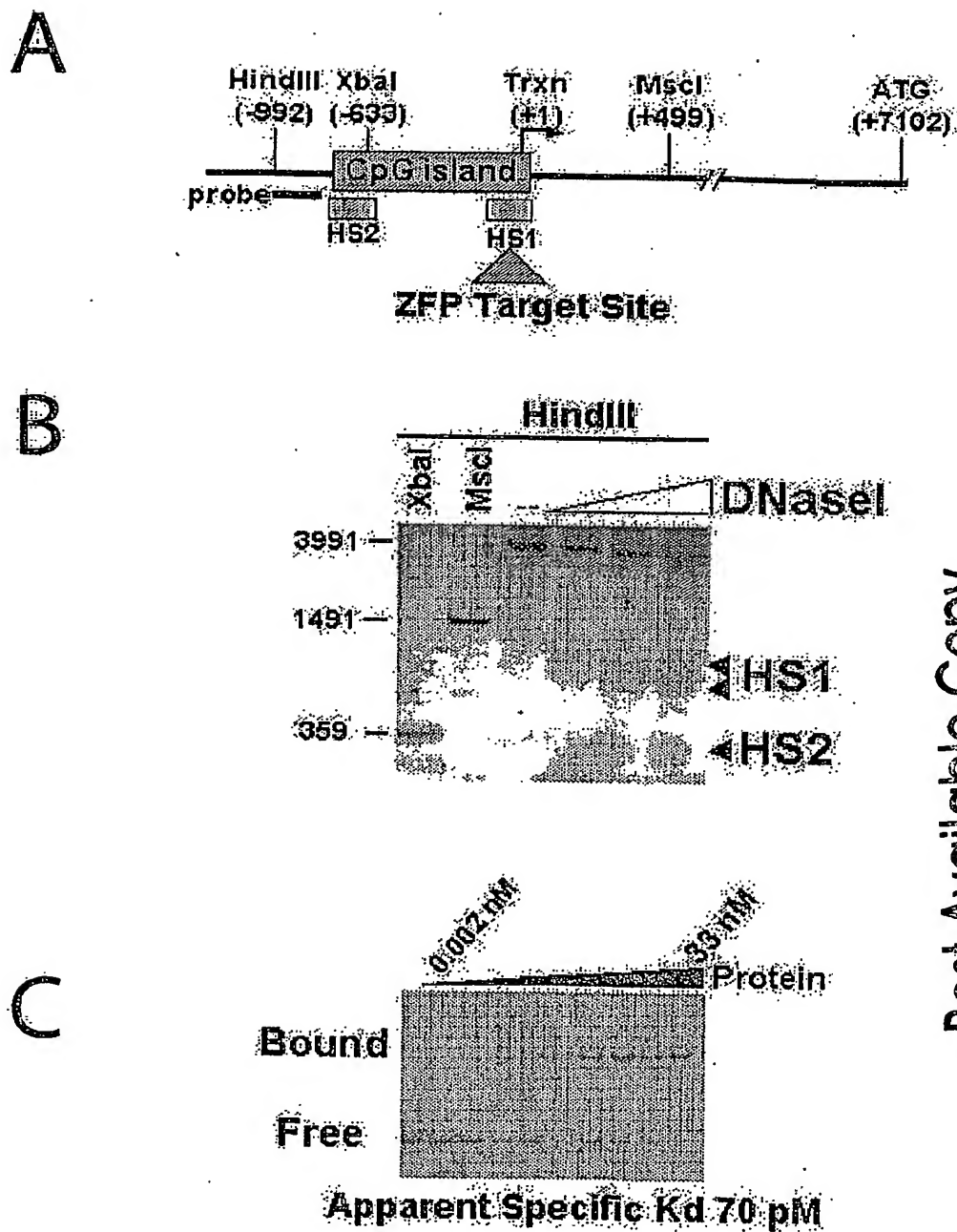


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Fig. 1

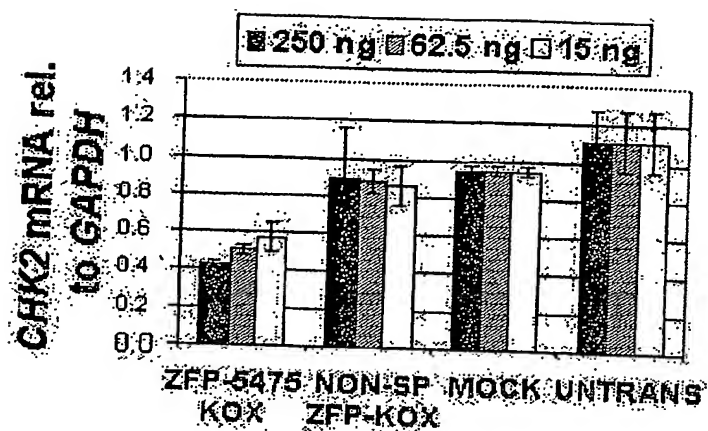


Rest Available Copy

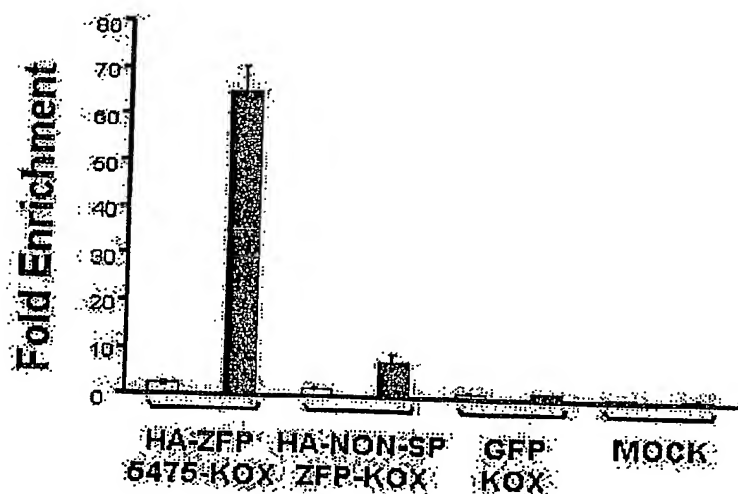
2/15

Fig. 2

A



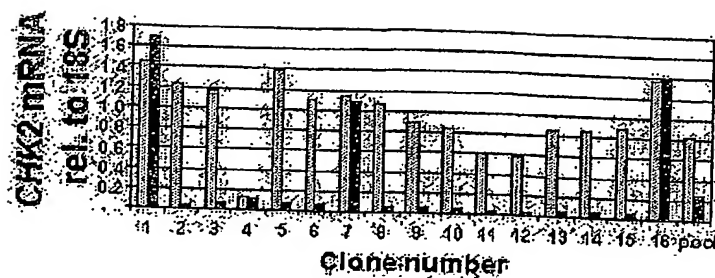
B



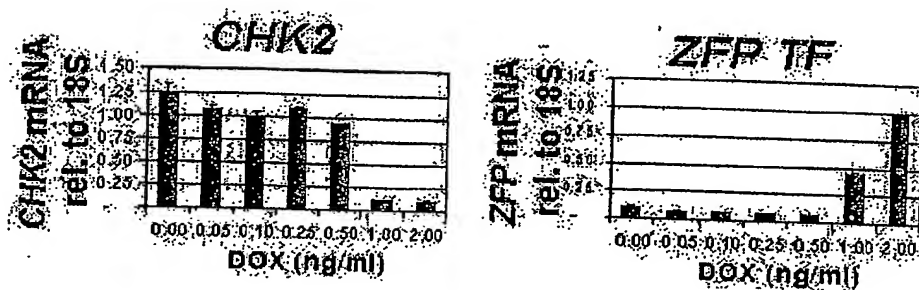
Best Available Copy

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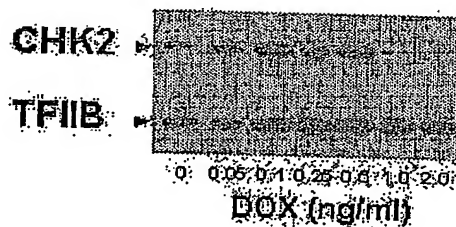
A



B



C



D

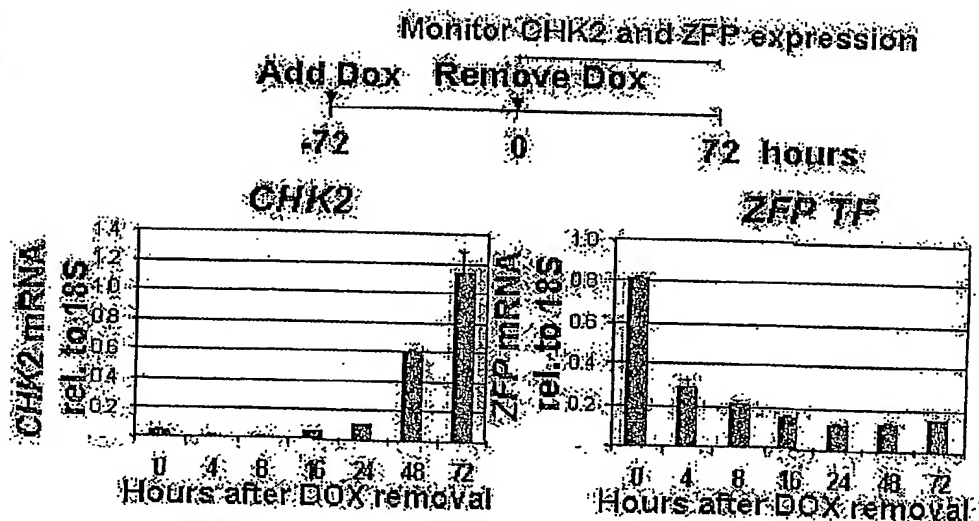
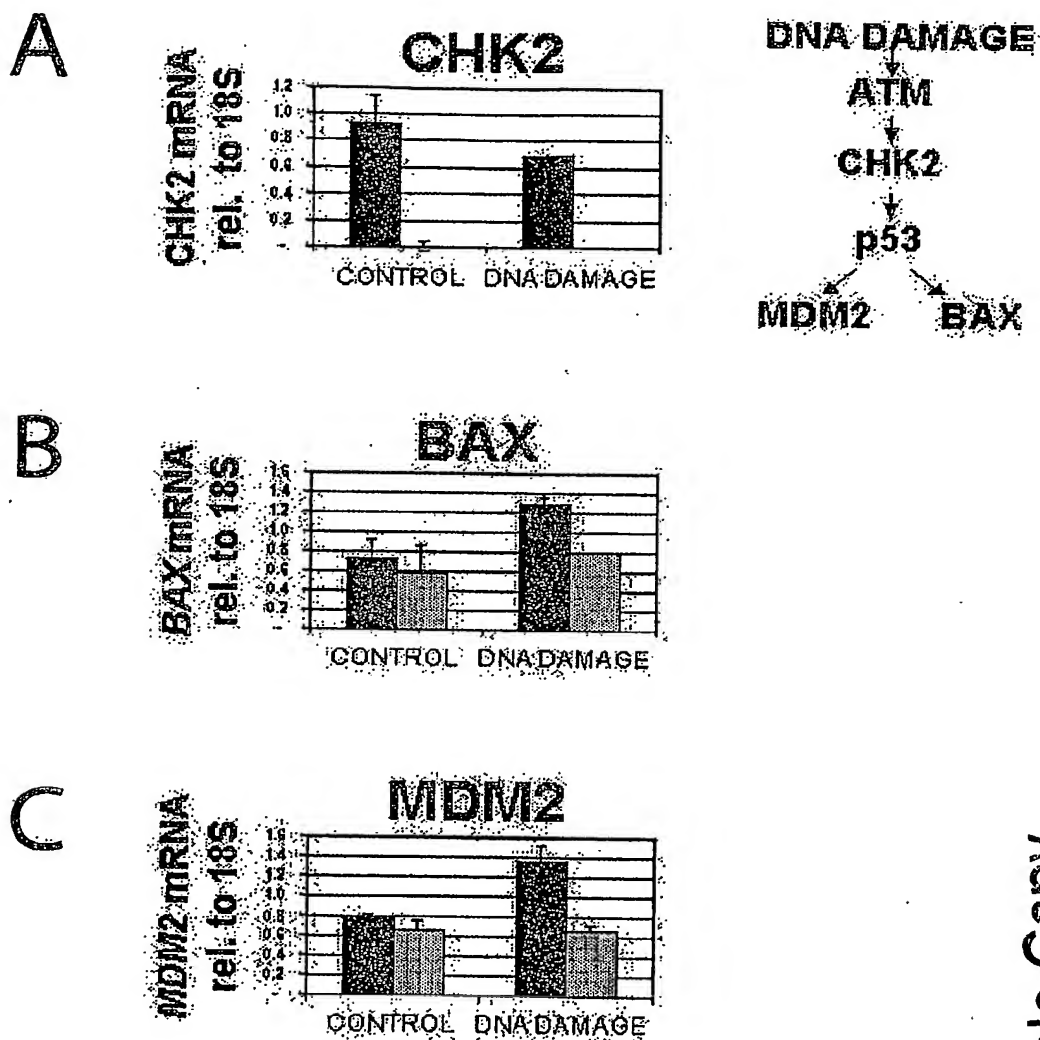


Fig. 3

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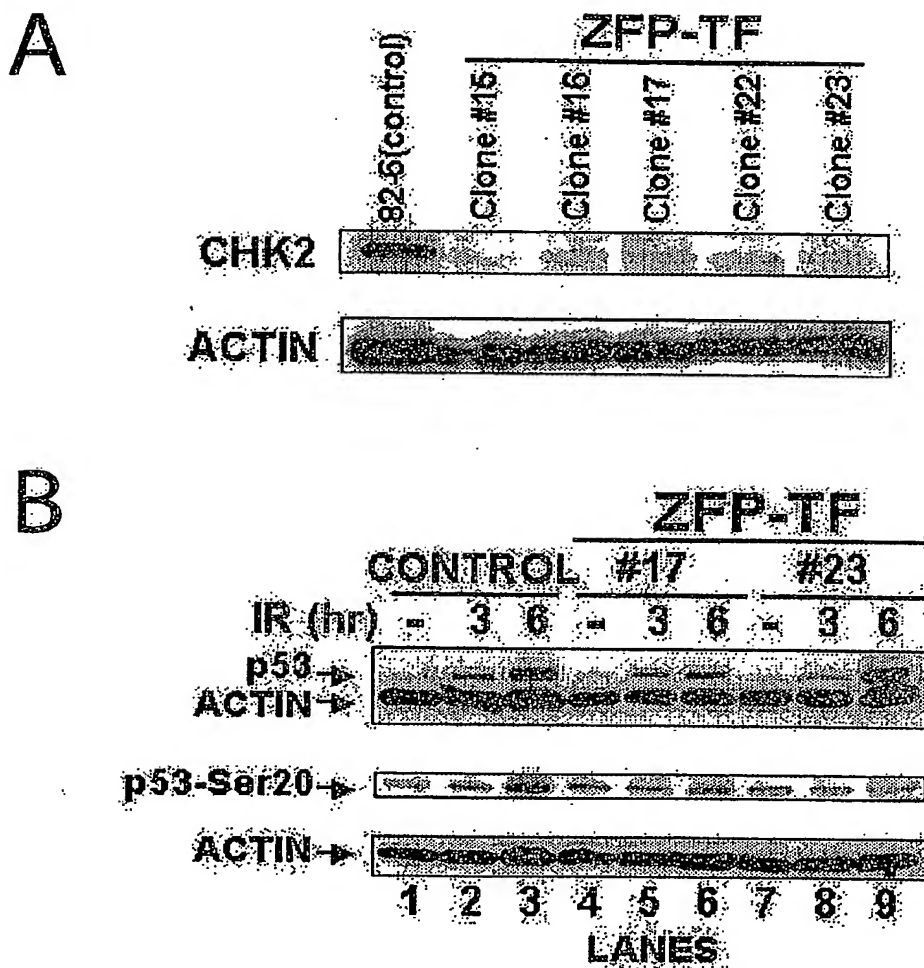
Fig. 4



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Fig. 5



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FIGURE 6

MAERPFQCRICMRNFSSRSDHLSRHIRTHTGEKPFACDICGRKFADNRDRTKHT
KIHTGGQRPYACPVESCDRRFSDRKTLIEHIRIHTGQKPFQCRICMRNFSTSSG
LSRHIRTHTGSQKPFQCRICMRNFSSRSDHLSEHIRTHTGEKPFACDICGRKFAT
SSDRTKHTKIHLRQKDAARN

SEQ ID NO: 27

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FIGURE 7

MAERPYPACPVESCDRRFSTSADLTEHIRIHTGQKPFQCRICMRNFSSANLSRHIRTHTGGERPF
QCRICMRNFSSRSDALSTHIRTHTGEKPFACDICGRKFADRSTRTKHTKIHTGSQKPFQCRICMRN
FSRSSDVLSAHIRTHTGEKPFACDICGKKFADRSNRIKHTKIHLRQKDAAR

(SEQ ID NO: 53)

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FIG. 8

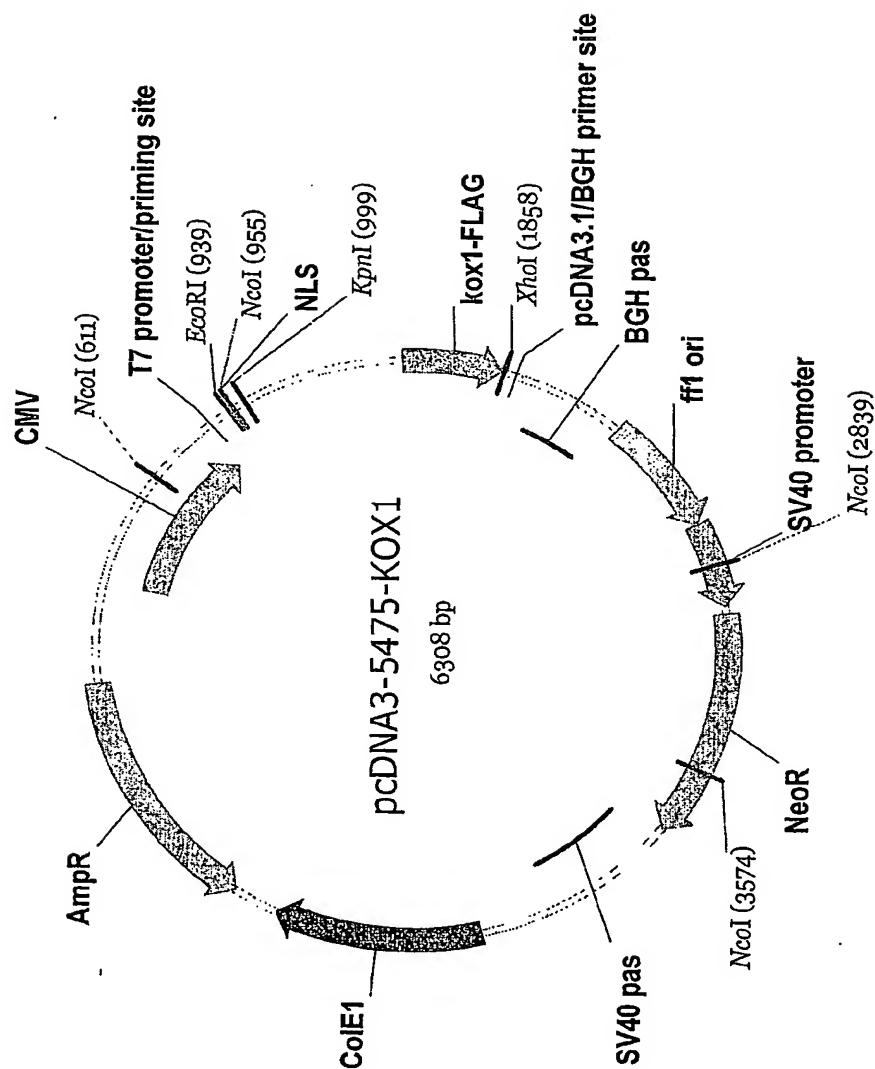


FIG. 9A

| | | | | | | | |
|-----|------------|------------|-------------|-------------|------------|-------------|-------------|
| 561 | TGGGACTTTC | CTACTTGGCA | GTACATCTAC | GTATTAGTCA | TCGTATTAC | CATGGTGATG | CGGTTTGGC |
| | ACCTGAAAG | GATGAACCGT | CATGTAGATG | CATAATCAGT | ACGATAATG | GTACCACTAC | GCCAAAACCG |
| 631 | AGTACATCAA | TGGCGTGGAA | TAGCGGTTTG | ACTCACGGGG | ATTTCCAAGT | CTCCACCCCA | TTGACGTCAA |
| | TCATGTAGTT | ACCCGCACCT | ATCGCCAAAC | TGAGTGCCCC | TAAAGGTTCA | GAGGTGGGGT | AACTGCAGTT |
| 701 | TGGGAGTTTG | TTTTGGCAC | AAAATCAACG | GGACTTTCCA | AAATGTCGTA | ACAACTCCGC | CCCATTTGACG |
| | ACCTCAAAC | AAAACCGTGG | TTTTAGTTGC | CCTGAAAGGT | TTTACAGCAT | TGTTGAGGCG | GGTAAACTGC |
| 771 | CAAATGGGCG | GTAGGCGTGT | ACGGTGGGAG | GTCTATAPAA | GCAGAGCTCT | CTGGCTAACT | AGAGAACCCCA |
| | GTTTACCCGC | CATCCGCACA | TGCCACCCCTC | CAGATATATT | CGTCTCGAGA | GACCGAATTGA | TCTCTTGGGT |
| 841 | CTGCTTACTG | GCTTATCGAA | ATTAATACGA | CTCACATATAG | GGAGACCCAA | GCTGGCTAGC | GTTTAAACTT |
| | GACGAATGAC | CGAATAGCTT | TAATTATGCT | GAGTGATATC | CCTCTGGGTT | CGACCGGATCG | CAAAATTGAA |
| | | EcoRI | | | NcoI | | |

NcOT

ECORI

M A P K K R K V

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FIG.9B

911 AAGCTGATCC ACTAGTCCAG TGTGGTGGAA TTCGCTAGCG CCACCATGGC CCCAAGAAG AAGAGGAAGG
 TTCGACTAGG TGATCAGGTC ACACCACCTT AAGCGATCGC GGTGGTACCG GGGTTCTTC TTCTCCTTCC
 KpnI
 ~~~~~  
 981 . G I D G V P F Q C R I C M R N F S R S D H L S .  
 TGGGAATCGA TGGGGTACCC TTCCAGTGC GAATCTGCAT GCGTAACTTC AGTCGTAGTG ACCACCTGAG  
 ACCCTTAGCT ACCCATGGG AAGGTCACAG CTTAGACGTA CGCATTTGAAG TCAGCATCAC TGGTGGACTC  
 . R H I R T H T G E K P F A C D I C G R K F A D  
 1051 CCGGCACATC CGCACCCACA CAGGCGAGAA GCCTTTTGCC TGTGACATTT GTGGGAGGAA ATTTGCCGAC  
 GGCCGTGTAG GCGTGGGTGT GTCCGCTCTT CGGAAAACGG ACACTGTAAA CACCCTCCTT TAAACGGCTG  
 N R D R T K H T K I H T G G Q R P Y A C P V E S .  
 1121 AACCGGGACC GCACAAAGCA TACCAAGATA CACACGGCG GACAGCGGCC GTACGCATGC CCTGTGAGT  
 TTGGCCCTGG CGTGTTCGT ATGTTCTAT GTGTGCCCCG CTGTGCGCCG CATGCGTACG GGACAGCTCA  
 . C D R R F S D R K T L I E H I R I H T G Q K P .  
 1191 CTTCCGATCG CCGCTTTTCT GACAGGAAGA CACTTATCGA GCATATCCG ATCCACACCG GTCAGAAGCC  
 GGACGCTAGC GCGGAAAAGA CTGTCCTTCT GTGAATAGCT CGTATAGCG TAGGTGTGGC CAGTCTTCGG  
 . F Q C R I C M R N F S T S S G L S R H I R T H  
 1261 CTTCCAGTGT CGAATCTGCA TGGTAACTT CAGTACCAGC AGCGGGCTGA GCCGCCACAT CCGCACCCAC  
 GAAGGTCACA GCTTAGACGT ACGCATGAA GTCATGGTGC TCGCCCGACT CGGCGGTGA GCGGTGGTG  
 T G S Q K P F Q C R I C M R N F S R S D H L S E .  
 1331 ACAGGATCTC AGAAGCCCTT CCAGTGTGCA ATCTGCATGC GTAACCTCAG TCGTAGTGAC CACCTGAGCG  
 TGTCCTAGAG TCTTCGGGAA GGTACACAGT TAGACGTACG CATTGAAGTC AGCATCACTG GTGGACTCGC  
 . H I R T H T G E K P F A C D I C G R K F A T S .  
 1401 AACACATTG CACCCACACA GCGGAGAAGC CTTTTCCTG TGACATTGT GGGAGGAAAT TTGCCACCAG  
 TTGTGTAAGC GTGGGTGTGT CCGCTCTTCG GAAAACGGAC ACTGTAAACA CCTCCTTTA AACGTGGTC  
 . S D R T K H T K I H L R Q K D A A R G S G M D  
 1471 CAGCGACCGC ACAAGCATA CCAAGATACA CCTGCGCCAA AAAGATGCGG CCCGGGGATC CGGCATGGAT  
 GTCGCTGGCG TGTTTCGTAT GGTTCATGT GGACGCGGT TTCTACGCC GGGCCCCCTAG GCCGTACCTA  
 A K S L T A W S R T L V T F K D V F V D F T R E .  
 1541 GCTAAGTCAC TAACTGCTG GTCCCGGACA CTGTTGACCT TCAAGGATGT ATTTGTGGAC TTCACCAGGG  
 CGATTCAAGT ATTGACGGAC CAGGGCCTGT GACCACCTGA AGTTCCTACA TAAACACCTG AAGTGGTCCC

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## FIG. 9C

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      . E W K L L D T A Q Q I V Y R N V M L E N Y K N
1611 AGGAGTGGAA GCTGCTGGAC ACTGCTCAGC AGATCGTGTA CAGAAATGTG ATGCTGGAGA ACTATAAGAA
      TCCTCACCTT CGACGACCTG TGACGAGTCG TCTAGCACAT GTCTTTACAC TAGGACCTCT TGATATTCTT
      . L V S L G Y Q L T K P D V I L R L E K G E E P
1681 CCTGGTTTCC TTGGGTTATC AGCTTACTAA GCCAGATGTG ATCCTCCGGT TGGAGAAAGG AGAAGAGCCC
      GGACCAAAGG AACCCAATAG TCGAATGATT CGGTCTACAC TAGGAGGCCA ACCTCTTCCC TCCTTCTCGG
      W L V E R E I H Q E T H P D S E T A F E I K S S
1751 TGGCTGGTGG AGAGAGAAAT TCACCAAGAG ACCCATCCTG ATTCAGAGAC TGCATTTGAA ATCAAAATCAT
      ACCGACCACC TCTCTCTTTA AGTGGTTCTC TGGGTAGGAC TAAGTCTCTG ACGTAAACTT TAGTTTAGTA

      XhoI
      ~~~~~
 . V D Y K D D D D K *
1821 CAGTTGACTA CAAGGACGAC GATGACAAGT AAGCTTCTCG AGTCTAGCTA GAGGGCCCGT TTAAACCCGC
 GTCAACTGAT GTTCCTGCTG CTACTGTTCA TTCGAAGAGC TCAGATCGAT CTCCTCGGCA AATTTGGGCG
1891 TGATCAGCCT CGACTGTGCC TTCTAGTTGC CAGCCATCTG TTGTTGCC CCCCCCGTG CTTTCCCTGA
 ACTAGTCGGA GCTGACACGG AAGATCAACG GTCGGTAGAC AACAAACGGG GAGGGGGCAC GGAAGGAACT
1961 CCTGGAAGG TGCCACTCCC ACTGTCCTTT CCTAATAAAA TGAGGAAATT GCATCGCATT GTCTGAGTAG
 GGGACCTTCC ACGGTGAGG TGACAGGAAA GGATTATTTT ACTCCTTTAA CGTAGCGTAA CAGACTCATC
2031 GTGTCATTCT ATTCTGGGG GTGGGGTGGG GCAGGACAGC AAGGGGAGG ATTGGGAAGA CAATAGCAGG
 CACAGTAAGA TAAGACCCCC CACCCACCCC CGTCTGTGCG TTCCCCCTTC TAACCCCTTCT GTTATCGTCC
2101 CATGCTGGG ATGCGGTGG CTCTATGGCT TCTGAGGCGG AAAGAACCAG CTGGGGCTCT AGGGGGTATC
 GTACGACCCC TACGCCACCC GAGATACCGA AGACTCCGCC TTCTTTGGTC GACCCCGAGA TCCCCATAG
2171 CCCACGCGC CTGTAGCGGC GCATTAAGCG CGCGGGGTGT GGTGGTTACG CGCAGCGTGA CCGCTACACT
 GGTGCGCGG GACATCGCG CGTAATTCGC GCCGCCACA CCACCAATGC GCGTCGCACT GCGGATGTA
2241 TGCCAGCGC CTAGCGCCG CTCCTTTTCG TTTCTTCCCT TCCTTTCTCG CCACGTTCCG CGGCTTTCCC
 ACGTCCGCG GATCGCGGC GAGGAAAGCG AAAGAAGGA AGGAAAGAGC GTGCAAGCG GCCGAAAGGG
2311 CGTCAAGCTC TAAATCGGG CATCCCTTTA GGGTTCCGAT TTAGTGCTTT ACGGCACCTC GACCCAAAA
 GCAGTTCGAG ATTTAGCCCC GTAGGGAAT CCCAAGGCTA AATCAGGAAA TGCCGTGGAG CTGGGGTTTT
2381 AACTTGATTA GGTGATGGT TCACGTAGTG GGCCATCGCC CTGATAGACG GTTTTTCGCC CTTTGACGTT
 TTGAACATA CCACATACCA AGTGCATCAC CCGGTAGCGG GACTATCTGC CAAAAAGCGG GAAACTGCAA
2451 GGAGTCCACG TTCTTTAATA GTGGACTCTT GTTCCAAACT GGAACAACAC TCAACCCCTAT CTCGGTCTAT

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FIG.9D

2521 CCTCAGGTGC AAGAAATTAT CACCTGAGAA CAAGGTTTGA CCTGTGTGTG AGTTGGGATA GAGCCAGATA  
 TCTTTTGATT TATAAGGGAT TTTGGGGATT TCGGCTATT GGTAAAAA TGAGCTGATT TAACAAAAAT  
 2591 AGAAAACTAA ATATTCCCTA AAACCCCTAA AGCCGATAA CCAATTTTT ACTCGACTAA ATTGTTTTTA  
 TTAACGGGAA TTAATTCTGT GGAATGTGTG TCAGTTAGG TGTGGAAGT CCCAGGCTC CCCAGGCGG  
 2661 AATTGGCTT AATTAAGACA CCTTACACAC AGTCAATCCC ACACCTTCA GGGTCCGAG GGTCCGTC  
 CAGAAAGTAG CAAAGCATGC ATCTCAATTA GTACGCAACC AGGTGGAAG AGTCCCCAGG CTCCCCAGCA  
 GTCTTCATAC GTTTCGTACG TAGAGTTAAT CAGTCGTTGG TCCACACCTT TCAGGGGTCC GAGGGGTCTG  
 2731 GGCAGAAGTA TGCAAAGCAT GCATCTCAAT TAGTCAGCAA CCATAGTCCC GCCCTAACT CGCCCCATCC  
 CCGTCTTCAT ACGTTTCGTA CGTAGAGTTA ATCAGTCGTT GGTATCAGGG CGGGGATTGA GCGGGGTAGG

NcoI  
~~~~~

2801 CGCCCCTAAC TCCGCCCAGT TCCGCCCAT TCCGCCCCA TGCGTACTA ATTTTTTTA TTTATGCAGA  
 GCGGGATTG AGCGGGTCA AGCGGGTAA GAGCGGGGT ACCGACTGAT TAAAAAAAT AAATACGTCT  
 2871 GGCCGAGGCC GCCTCTGCCT CTGAGCTATT CCAGAAGTAG TGAGGAGGCT TTTTGGAGG CCTAGGCTTT  
 CCGGCTCCGG CGGAGACGGA GACTCGATAA GGTCTTCATC ACTCTCCGA AAAAACCTCC GGATCCGAAA  
 2941 TGCAAAAAGC TCCCGGAGC TTGTATATCC ATTTTCGGAT CTGATCAAGA GACAGGATGA GGATCGTTTC  
 ACGTTTTTCG AGGCCCTCG AACATATAGG TAAAAGCCTA GACTAGTTCT CTGTCTACT CCTAGCAAAG  
 3011 GCATGATTGA ACAAGATGA TTGCACGCAG GTTCTCCGC CGCTTGGGTG GAGAGGCTAT TCGGCTATGA  
 CGTACTAAT TGTCTACCT AACGTGCGTC CAAGAGGCCG GCGAACCCAC CTCTCCGATA AGCCGATACT  
 3081 CTGGGCACAA CAGACAAATCG GCTGCTCTGA TGCCGCCGTG TTCCGGCTGT CAGCGCAGG GCGCCGGTT  
 GACCCGTGTT GTCTGTAGC CGACGAGACT ACGCGGCAC AAGGCCGACA GTCGCGTCCC CGCGGCCAA  
 3151 CTTTTTGTCA AGACCGACCT GTCCGGTGCC CTGAATGAAC TGCAGGACGA GGCAGCGCG CTATCGTGGC  
 GAAAAACAGT TCTGGCTGGA CAGGCCACGG GACTTACTTG ACGTCTGTCT GCGGGAAGG ACTGGCTGCT  
 3221 TGGCCACGAC GGGCGTTCCT TGCGCAGCTG ACGAGTGAAC ACAGTACTT CCGTCCGCC GATAGCACCG  
 ACGGTGCTG CCGCAAGGA ACGGTCGAC ACGAGTGAAC ACAGTACTT CCGCTTCCC TGACCCGACA  
 3291 ATTGGCGGAA GTGCCGGGGC AGGATCTCCT GTCATCTCAC CTTGCTCCTG CCGAGAAAGT ATCCATCATG  
 TAACCCGCTT CACGGCCCCG TCCTAGAGGA CAGTAGAGTG GAACGAGGAC GGCTCTTCA TAGGTAGTAC  
 3361 GCTGATGCAA TCGGGCGGCT GCATACGCTT GATCGGCTA CCTGCCCATT CGACCAACAA CGGAAACATC  
 CGACTACGTT ACGCCGCCGA CGTATGCGAA CTAGGCCGAT GGACGGGTAA GCTGTGGTT CGCTTTGTAG  
 3431 GCATCGAGCG AGCACGTACT CCGATGGAAG CCGTCTTGT CGATCAGGAT GATCTGGACG AAGAGCATCA  
 CGTAGCTCGC TCGTGCATGA GCCTACCTTC GGCAGAACA GCTAGTCTTA CTAGACCTGC TTCTCGTAGT

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## FIG.9E

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3501 GGGGCTCGCG CCAGCCGAAC TGTTGCCAG GCTCAAGCG CGCATGCCCG ACGGCGAGGA TCTCGTCGTG
 CCCCAGCGC GGTGGGCTTG ACAAGCGGTC CGAGTTCGCG GCGTACGGGC TGCCGCTCCT AGAGCAGCAC
 NcoI
      ~~~~~
3571 ACCCATGGCG ATGCCTGCTT GCCGAATATC ATGGTGGAAT TTCTGGATTG ATCGACTGTG
      TGGGTACCGC TACGGACGAA CGGCTTATAG TACCACCTTT TACCGGCGAA AAGACCTAAG TAGCTGACAC
3641 GCCGGCTGGG TGTGGCGGAC CGCTATCAGG ACATAGCGTT GGCTACCGT GATATTGCTG AAGAGCTTGG
      CGGCCGACCC ACACCGCCTG GCGATAGTCC TGATCGCAA CCGATGGGCA CTATAACGAC TTCTCGAACC
3711 CGGCGAATGG GCTGACCGCT TCTCGTGCT TTACGGTATC GCCGCTCCG ATTGCGAGCG CATCGCCTTC
      GCCGCTTACC CGACTGGCGA AGGAGCACGA AATGCCATAG CGCGAGGGC TAAGCGTCGC GTAGCGGAAG
3781 TATCGCCTTC TTGACGAGTT CTCTGAGCG GGAATCTGGG GTTCGAAATG ACCGACCAAG CGACGCCCAA
      ATAGCGGAAG AACTGCTCAA GAAGACTCGC CCGTACCGC CAAGCTTAC TGGCTGGTTC GCTGCGGTT
3851 CCTGCCATCA CGAGATTTCG ATTCCACCGC CGCTTCTAT GAAAGGTTGG GCTTCGGAAT CGTTTCCGG
      GGACGGTAGT GCTCTAAGC TAAGTGGCG GCGGAAGATA CTTCCAAAC CGAAGCCTTA GCAAAAGGCC
3921 GACGCCGGCT GGATGATCCT CCAGCGCGG GATCTATGC TGAGTTCTT CGCCACCCC AACTTGTTA
      CTGCGGCCGA CCTACTAGGA GGTGCGGCC ATAGAGTAC ACCTAAGAA CGGGTGGG TTGAACAAT
3991 TTGCAGCTTA TAATGGTTAC AATAAAGCA ATAGCATCAC AATTTACA AATAAAGCAT TTTTTCAC
      AACGTCGAAT ATTACCAATG TTTATTTCTG TATCGTAGT TTTAAAGTGT TTATTTCTGTA AAAAAAGTGA
4061 GCATTCTAGT TGTGGTTTGT CCAAACTCAT CAATGTATCT TATCATGTCT GTATACCGTC GACCTCTAGC
      CGTAAGATCA ACACCAACA GGTITGAGTA GTTACATAGA ATAGTACAGA CATATGGCAG CTGGAGATCG
4131 TAGAGCTTGG CGTAATCATG GTCATAGCTG TTTCCCTGTGT GAAATTGTTA TCCGCTACA ATTCCACACA
      ATCTCGAACC GCATTAGTAC CAGTATCGAC AAAGGACACA CTTTAAACAAT AGGCGAGTGT TAAGTGTGT
4201 ACATACGAGC CGGAAGCATA AAGTGTAAG CCTGGGGTGC CTAATGAGTG AGCTAACTCA CATTAATTGC
      TGTATGCTCG GCCTTCGTAT TTCACATTTT GGACCCACAG GATTACTCAC TCGATTGAGT GTAAATTAAAG
4271 GTTGGCTCA CTGCCGCTT TCCAGTCGGG AAACCTGTG TGCCAGCTGC ATTAATGAAT CGGCCAACGC
      CAACGCGAGT GACGGCGGAA AGGTCAGCCC TTTGGACAGC ACGGTCGACG TAATTACTTA GCCGTTGCG
4341 GCGGGGAGAG GCGGTTGCG TATTGGCGC TCTTCCGCTT CCTCGCTCAC TGACTCGCTG CGCTCGGTG
      CGCCCTCTC CGCCAAACGC ATAACCCGCG AGAAGGGGAA GGAGCGAGTG ACTGAGCGAC GCGAGCCAGC
4411 TTGCGCTGCG GCGAGCGGTA TCAGCTCACT CAAAGCGGT AATACGGTTA TCCACAGAAT CAGGGGATAA
      AAGCCGACGC CGTCGCCAT AGTCGAGTGA GTTCCGCCA TTATGCCAAT AGGTGTCTTA GTCCCTATT
4481 CGCAGGAAG AACATGTGAG CAAAAGGCC GCAAAAGGCC AGGAACCGTA AAAAGGCCG GTTGTGGCG

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## FIG. 9F

4551 GCGTCCTTTC TTGTACACTC GTTTTCCGGT CGTTTTCCGG TCCTTGGCAT TTTTCCGGG CAACGACCGC  
 TTTTTCATA GGTCGGCCC CCCTGACGAG CATCACAAA ATCGACGCTC AAGTCAGAG TGGCGAAACC  
 AAAAAGGTAT CCGAGGGGG GGGACTGCTC GTAGTGTITT TAGCTGGAG TTCAGTCTCC ACCGCTTTGG  
 4621 CGACAGGACT ATAAAGATAC CAGCGTTTC CCCCTGGAAG GGGACCTTC GAGGAGCAC CCGCTCCTG TTCCGACCCCT  
 GCTGTCTGA TATTCTATG GTCCGCAAG GTCCCTTCT CCCTTCGGGA AGCGTGGCG TTTCTCAATG CTCACGCTGT  
 4691 GCGCGAATGG CCTATGGACA GGTATGGTA GGTCTGTCG TCCAAGCTGG GGTGTGCA CGAAGCTTAC GAGTGGACA  
 AGTATCTCA GTTCGGTGTG GGTCTGTCG TCCAAGCTGG GGTGTGCA CGAAGCTTAC GGTGTGGC  
 4761 TCCATAGAGT CAAGCCACAT CCAGCAAGCG AGTTTCGACC CGACACAGT CCGGTAAAG CACGACTTAT CGCCACTGGC  
 ACCGCTGCGC CTTATCCGGT AACTATCGTC TTGATCCAA CCCGTAAGA CAGGACTTAT CGCCACTGGC  
 4831 TGGCGACGCG GAATAGGCCA TTGATAGCAG AACTCAGGT GGGCATTTCT GTGCTGAATA GCGGTGACCG  
 4901 AGCAGCCACT GGTACAGGA TTAGCAGAG GAGGTATGTA GCGGTGCTTA CAGAGTTCTT GAAGTGGTGG  
 TCGTCGGTGA CCATTGTCTT AATCGTCTCG CTCCATACAT CCGCCACGAT GTCTCAAGAA CTTTACCACC  
 4971 CCTAACTAGC GCTACACTAG AAGGACAGTA TTGATATCTT GCGTCTGCT GAAGCCAGTT ACCTTCCGAA  
 GGATTGATC CGATGTGATC TTCTGTGAT AAACCATAGA CCGGAGACGA CTTCCGTCAT TGGAAAGCCTT  
 5041 AAAGAGTTGG TAGCTCTGA TCCGGCAAC AAACCCCGC TGGTAGCGT GGTTTTTTG TTTGCAAGCA  
 TTTCTCAACC ATCGAGACT AGGCGTTTG TTTGGTGGC ACCATCGCA CCAAAAAAC AACGTTCTGT  
 5111 GCAGATTACG CGCAGAAAA AAGGATCTCA AGAATCCT TTGATCTTTT CTACGGGTC TGACGCTCAG  
 CGCTAATGC GGTCTTTT TTCTTAGAGT TCTTCTAGGA AACTAGAAAA GATCCCCAG ACTGCGAGTC  
 5181 TGGAAACGAAA ACTCAGTTA AGGATTTTG GTCATGAGAT TATCAAAAA TATCTTACC TAGATCCTTT  
 ACCTTGCTTT TGAGTGCAAT TCCCTAAAA CAGTACTTA TAGTATTTT CTAGAAGTGG ATCTAGGAAA  
 5251 TAAATTAATA ATGAAGTTT AAATCAATCT AAATATATA TGAGTAACT TGGTCTGACA GTTACCAATG  
 ATTTAATTTT TACTTCAAA TTTAGTTAGA TTTTATATAT ACTCATTTGA ACCAGACTGT CAATGGTTAC  
 5321 CTTAATCAGT GAGGCACCTA TCTCAGCGAT CTGTCTATTT CGTTCATCCA TAGTTGCCG ACTCCCCGTC  
 GAATTAGTCA CTCGTTGAT AGAGTCGCTA GACAGATAA GCAAGTAGGT ATCAACGGAC TGAGGGGACG  
 5391 GTGTAGATAA CTACGATACG GGAGGCTTA CCATCTGGCC CCAGTGTGC AATGATACC CGAGACCCAC  
 CACATCTATT GATGCTATGC CCTCCCGAAT GGTAGACCGG GGTACGACG TTAATATGGC GCTCTGGGTG  
 5461 GCTCACCGGC TCCAGATTTA TCAGCAATAA ACCAGCCAGC CGGAAGGGCC GAGCGAGAA GTGTCTCTGC  
 CGAGTGGCCG AGGTCTAAT AGTCGTTATT TGGTCGGTCG GCTTCCCGG CTCGCGCTT CACGAGACG  
 5531 AACTTTATCC GCCTCATCC AGTCTATTAA TTGTTGCCG GAAGCTAGAG TAAGTAGTTC GCCAGTTAAT  
 TTGAATAGG CCGAGGTAGG TCAGATAATT AACAACGGCC CTTGATCTC ATTATCAAG CGGTCAATTA

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FIG.9G

5601 AGTTTGGCGA ACGTTGTGTC CATTGCTACA GGCAATCGTGG TGTCACGGCTC GTCGTTTGGT ATGGCTTCAT  
TCAAACGCGT TGAACAACG GTAACGATGT CCGTAGCACC ACAGTGGAG CAGCAAAACCA TACCGAAGTA  
5671 TCAGCTCCGG TTCCCAACGA TCAAGGGGAG AGTCCGCTC AATGTACTAG GGGGTACAAC ACGTTTTTC GCGTAGCTC  
AGTCGAGGCC AAGGGTTGCT CCGATCGTTG TCAGAAGTAA GTTGGCCGCA GTGTATCAC TCATGGTTAT GGCAGCACTG  
5741 CTTCCGTCCT CCGATCGTTG GGTAGCAAC AGTCTTCATT CAACCGGCGT CACAATAGTG AGTACCAATA CCGTCGTGAC  
GAAGCCAGGA GGTAGCAAC AGTCTTCATT GCCATCCGTA AGATGCTTTT CTGTGACTGG TGAGTACTCA ACCAAGTCAT  
5811 CATAATTCTC TTACTGTCTAT GGTAGCAAC AGTCTTCATT CAACCGGCGT CACAATAGTG AGTACCAATA CCGTCGTGAC  
GTATTAAGAG AATGACAGTA CCGTAGGCAAT TCTACGAAA TCTCTTGGCC GCGTCAATA CCGGATATA GCGCGCGTGT  
5881 TCTGAGAATA GTGTATGCGG CGACCGAGTT GCTCTTGGCC GCGTCAATA CCGGATATA GCGGATATA GCGCGCGTGT  
AGACTCTTAT CACATACGCC GCTGGCTCAA CGAGAACGGG AACTCTCAAG AACTCTCAAG GATCTTACCG  
5951 TAGCAGAACT TAAAAGTGC TCATCATGG AAAACGTTCT TCGGGGCGAA AGCTCTCAAG AACTCTCAAG GATCTTACCG  
ATCGTCTTGA AATTTTCAG AGTAGTAACC TTTTGCAGA ACTGATCTTC AGCATCTTTT ACTTTCACCA  
6021 CTGTTGAGAT CCAGTTCGAT GTAACCCACT CGTGACCCCA ACTGATCTTC AGCATCTTTT ACTTTCACCA  
GACAACTCTA GGTCAAGCTA CATTGGTGA GCACGTGGGT TGACTAGAAG TCGTAGAAAA TGAAAGTGGT  
6091 GCGTTTCTGG GTGAGCAAAA ACAGGAAGGC AAAATGCCG AAAAAGGGA ATAAGGGCGA CACGGAATG  
CGCAAAGACC CACTCGTTTT TGTCTTCCG TTTTACGGG TTTTTCCTT TATTCCTGCT CATGAGCGGA  
6161 TTGAATATC ATACTCTCC TTTTCAATA TTTTCAATA TTTTCAATA TTTTCAATA TTTTCAATA TTTTCAATA  
AACTTATGAG TATGAGAAG AAAAGTTAT AATAACTCG TAAATAGTCC CAATAACAGA GTACTCGCTT  
6231 TACATATTTG AATGTATTTA GAAAAATAA CAAATAGGG TTCCGCGCAC ATTTCCCGCA AAAGTGCAC  
ATGTATAAAC TTACATAAAT CTTTTTATTT GTTTATCCCC AAGCGCGTG TAAAGGGGCT TTTACCGGTG  
6301 CTGACGTC  
GACTGCAG